

Store at
-20C
#51586**KLF5 (D7S3F) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H Mk	Endogenous	60	Rabbit IgG	#Q13887	688

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

KLF5 (D7S3F) Rabbit mAb recognizes endogenous levels of total KLF5 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala167 of human KLF5 protein.

Background

Kruppel-like factors (KLFs) are a family of zinc finger DNA-binding proteins that share homology to Kruppel transcription factor in *Drosophila melanogaster* (1). These transcription regulators play diverse roles in cell proliferation, differentiation, inflammation, and pluripotency (2). Various KLFs, including KLF5, are involved in cancer-related processes, such as epithelial-mesenchymal transition (EMT), invasion, and metastasis (3-6). In addition, studies show that KLF5 deficiency specific to renal collecting duct epithelial cells impairs cardiac stress adaptation response coordinated by the heart and kidney (7).

Background References

- Zhang, H. et al. (2007) *J Biol Chem* 282, 15541-9.
- Tetreault, M.P. et al. (2013) *Nat Rev Cancer* 13, 701-13.
- Limame, R. et al. (2014) *Oncotarget* 5, 29-48.
- Qin, J. et al. (2015) *Nat Commun* 6, 8471.
- Cho, M.S. et al. (2016) *J Immunol* 196, 1412-8.
- David, C.J. et al. (2016) *Cell* 164, 1015-30.
- Fujiu, K. et al. (2017) *Nat Med* 23, 611-622.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **Mk:** Monkey

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